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network is said to generalize if it gives correct **responses** to input patterns not seen during training.
brain is believed to have evolved. 1.1 Learning as **entropy** reduction A neural network, when trained, is
Rijksuniversiteit Te Leiden Vakgroep Informatica **Design**ing Modular Artificial Neural Networks Egbert J.w.
www.inet.gda.pl/ai/ftp.wi.LeidenUniv.nl/pub/CS/TechnicalReports/1993/tr93-24.ps.gz

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must be capable of determining, at runtime, a **response** appropriate to a novel situation-goal pair. This
This paper is a preliminary report on the **Entropy** Reduction Engine architecture for integrating
a NASA mission scenario and a brief list of **design** goals. The main body of the paper presents an
cgenie.lboro.ac.uk/~dan/papers/jb-spring-90.ps

Discontinuous Regression Surfaces Fitting - Qiu (1998) (Correct) (1 citation)
function usually takes discrete values while the **response** variable in the regression setup is generally
method is closely related to the maximum-**entropy** methods (Titterington 1985) and the Bayesian
fitted through these points in a neighborhood of a **design** point. This line provides a first-order
biostat3.med.ohio-state.edu/surface.ps

Redesigning a Network of Rainfall Stations - Sanso, Müller (1997) (Correct)
(1997) use a kriging model to estimate the **response surface** of interest and show how the problem of
authors consider an approach based on minimising **entropy** and a normal-inverted-Wishart model. Nychka and
cost. We formulate the problem as an optimal **design** problem with decision variables d, a probability

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Unsupervised Learning With Global Objective Functions - Becker (Correct)
as to whether or not it has produced the correct **response** for each input pattern. Invariably, though, for
where H(x) Gamma R x p(x) log p(x)dx is the **entropy** of random variable x with probability
also adheres to the principles of good algorithm **design** well-known to the computer scientist: we start
www.science.mcmaster.ca/Psychology/becker/papers/handbook-btnn.ps.Z

Parametric And Non-Parametric Techniques For Identifying.. - Kamal Khiani (Correct)
the network is conditioned to yield a particular **response** to a specific input. The training sample
gray level) and two from the cooccurrence matrix (**entropy** and correlation)These features were used in
in figure 1. A controlled imaging environment was **design**ed This work has been partially supported by
mecca.spd.louisville.edu/~yamany/embs.ps

An Explicit Multi-Model Compressible Flow Formulation.. - Cai, Paraschivoiu.. (1999) (Correct)
However, for large scale simulations, the **response** time remains too large for the software to be
the accuracy avoiding any numerical generation of **entropy**. The main considerations addressed in this paper
matured to be considered accurate for engineering **design** and analysis. However, for large scale
www.cs.colorado.edu/homes/cai/public_html/papers/dd11.ps.gz

Perception And Entropy Inspired Ultrasonic Grain Noise.. - Ericsson, Gustafsson (Correct)
MHz and 0.7-1.4 MHz, respectively. The ultrasonic **response** signals were sampled at a rate of 40 MHz, with a
Perception And **Entropy** Inspired Ultrasonic Grain Noise Suppression,
is well known from telecommnication, it is **design**ed for detection of a band pass signal s(t)
www.signal.uu.se/Publications/psu/c982.ps

Numerical Analysis of Hollow Piezoceramic Cylindrical.. - Melnik, Melnik (Correct)
that controls cell activity. Due to their fast **response** to vibrations or other external stimuli,
derivative of corresponding tensors. We assume the **entropy** balance T@S=t =Gammaq ii Q 4) where T
as nondestructive investigation in geophysics, **design** of medical ultrasonic equipment, low-tolerance
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Independent Component Analysis of Electroencephalographic Data - Makeig, al. (1996) (Correct) (38 citations)
39-Hz click train evoking a 39-Hz steady-state **response** (SSR)Short, and task-irrelevant probe tones of
(u)ICA can then be performed by maximizing the **entropy**, H(y)of a non-linearly transformed vector: y
from potential patterns recorded on the scalp **surface** is mathematically underdetermined. Recent
www.dai.ed.ac.uk/groups/evalg/Local_Copies_of_Papers/nips95b.ps.gz

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An Evolutionary Algorithm for Integer Programming - Günter Rudolph (1994) (Correct) (15 citations)
algorithm does not have prior knowledge of the **response surface** there is absolute uncertainty about the
integer search spaces. The principle of maximum **entropy** is used to select a specific distribution from
does not have prior knowledge of the **response surface** there is absolute uncertainty about the next
ls11-www.informatik.uni-dortmund.de/people/rudolph/publications/Rud94c.ps.gz

Numerical Schemes for the Hamilton-Jacobi and Level Set.. - Barth, Sethian (1997) (Correct) (14 citations)
resolution, not just around the interface, but in **response** to other variables as well, this approach is
one space dimension is well known. Let u denote an **entropy** solution of the conservation law equation u t

mean curvature of the (d{1)dimensional level set **surface** and is calculated from the divergence formula
www.math.berkeley.edu/~sethian/Publications/../Papers/sethian.barth.ps.gz

A Gallavotti-Cohen Type Symmetry in the Large Deviation.. - Lebowitz, Spohn (1999) (Correct) (8 citations)
These give a relation between linear **response** and current fluctuations in equilibrium. In this
in the fluctuation theorem and the macroscopic **entropy** production. This gives, in the linear regime, an
chosen so that the system evolves on a compact **surface** (generally one of constant energy) in phase
www-m5.mathematik.tu-muenchen.de/pers/spohn/129cg.ps

Integrating Planning and Reaction: A Preliminary Report - Bresina, Drummond (1990) (Correct) (7 citations)
must be capable of determining, at runtime, a **response** appropriate to a novel situation-goal pair. This
This paper is a preliminary report on the **Entropy** Reduction Engine architecture for integrating
are known by the design team for example, soil **surface** characteristics, **surface** topography, and
cgenie.lboro.ac.uk/~dan/papers/jb-spring-90.ps

Sensor Abstractions to Support Many-Robot Systems - Gage (1992) (Correct) (6 citations)
initiate various productive activities in **response** to quite simple signals and cues. Honey bee
system and pheromone mechanisms) and physics (**entropy**, temperature, pressure, solid, liquid, gas) in
[8]gathering oceanographic data [9]planetary **surface** exploration [10, 11, 12]and aircraft carrier
www.nosc.mil/robots/pubs/spie92.pdf

Nonlinear Extensions To The Minimum Average Correlation Energy.. - Fisher, III (1997) (Correct) (4 citations)
.9 2 MSF peak output **response** of training vehicle 1a over all aspect angles.
www.ai.mit.edu/people/fisher/mypage/../papers/dissertation.ps.gz

The Advantages of Evolutionary Computation - Fogel (1997) (Correct) (2 citations)
the simplicity of the approach, its robust **response** to changing circumstance, its flexibility, and
peaks become troughs, minimized prediction error **entropy** wells" Atmar, 1979)Such a viewpoint is
(1932) involving "adaptive landscapes.A **response surface** describes the fitness assigned to alternative
orange.cp.eng.chula.ac.th/Prabhas/fogel_bcec97.pdf

A Fresh Look At Model Selection In Inverse Scattering - Vincent Macaulay (1996)

(Correct) (2 citations)
inferring which is considered here. The initial **response** to this inverse problem was to parametrize the
by an application of Jaynes' principle of maximum **entropy**. The parameter introduced to satisfy the assumed
its gross features, e.g.its spatial extent and **surface** diffuseness (Hofstadter 1956)This provided a
www.phon.ox.ac.uk/~vincent/me94v.ps

Dual Topologically Adaptable Snakes - Giraldi, Goncalves, Oliveira (2000) (Correct) (1 citation)
can dynamically conform to object contours in **response** to internal (elastic) and external forces
step. The T-snake model incorporates also an **entropy** condition: once a node is burnt (passed over by
models consist basically of an elastic curve (or **surface**) which can dynamically conform to object
www.lcg.ufrj.br/~w3master/pub/giraldi_garcia_iccvprip2000.ps.gz

Optimization of Entropy with Neural Networks - Schraudolph (1995) (Correct) (1 citation)
disparity 1.823. 24 II.3 **Response** of first layer as a function of disparity :
University Of California, San Diego Optimization Of **Entropy** With Neural Networks A Dissertation Submitted In
ftp.cnl.salk.edu/pub/schraudo/thesis.ps.gz

Discontinuous Regression Surfaces Fitting - Qiu (1998) (Correct) (1 citation)
function usually takes discrete values while the **response** variable in the regression setup is generally
method is closely related to the maximum-**entropy** methods (Titterington 1985) and the Bayesian
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A Minimum-Entropy Estimator For Regression Problems With.. - Pronzato And Thierry (2000) (Correct)
with a compact set, is the model **response** for parameters and experimental conditions
A Minimum-**Entropy** Estimator For Regression Problems With Unknown
(y 1 yn)belongs to the expectation **surface** S, de ned by S =f1)
www.i3s.unice.fr/~pronzato/FichPS/maxent2000.ps

Nucleosynthesis of Elements in Low to Intermediate Mass.. - John Lattanzio And (Correct)
and the central temperature and density grow in **response** to the increasing molecular weight (points 1-3)
the star begins its ascent of the AGB. With this **entropy** barrier removed, the inner edge of the
phases of a star's life where mixing brings to the **surface** the products of interior nucleosynthesis. These
www.maths.monash.edu.au/~johnl/preprints/grainpaper.ps.gz

Overview of Recent Flight Flutter Testing Research at NASA.. - Brenner, Lind, Voracek (1997) (Correct)
Research Center Edwards, California Abstract In **response** to the concerns of the aeroelastic community,
Mach, critical flight parameters MEM maximum **entropy** method MIMO multi-input-multi-output MLE
system were programmed to activate the control **surfaces** for aeroservoelastic excitation. 2. A variety of
www.dfrc.nasa.gov/DTRS/1997/PDF/H-2165.pdf

A Local Fluctuation Theorem - Gary Ayton Denis (2000) (Correct)
it is valid far from equilibrium in the nonlinear **response** regime [1]In 1994, Evans and Searles [2-4]
a nonequilibrium steady state, the time averaged **entropy** production per unit volume, takes on a value
rr SJr s ,7) where the volume V has an enclosing **surface** S with outward normal dS [13]Dividing the
rsc.anu.edu.au/~evans/FTforPoise.pdf

The Analysis of a Micro-Scale Pump which uses Controlled .. - Jeffrey Dohner.. (1998) (Correct)
sound speed -shear sound speed -time averaged **response** of -solid angle coefficient -Green's function
- expansion coefficient of viscosity -specific **entropy** ,perturbations of density , coefficient -Green's function -fluid domain -**surface** of fluid domain -vector pointing to a point in
infoserve.sandia.gov/sand_doc/1998/980207.pdf

Simulations of the Erythrocyte Cytoskeleton at Large.. - Dennis Discher David (1998) (Correct)
deforms in experiment. INTRODUCTION Mechanical **responses** of cells originate in disparate physics over
of the network arises from the configurational **entropy**, i.e.thermal fluctuations, of multisegmented
has an inside diameter of 12s R #0.9 #m. The **surface** of the cell is triangulated with 6110 vertex
www.phys.sfu.ca/research/workarea/boal/papers/paper94.pdf

How and why phosphotyrosine-containing peptides bind to the.. - Zhou, Abagyan (Correct)
dipoles Langevin dipoles model (PDLD) and linear-**response** approximation (LRA) 29]Other methods use
such as polar and apolar contributions [32]**entropy** loss of the ligand [33,34]and **surface** [32]**entropy** loss of the ligand [33,34]and **surface** complementarity [35]In general, fast and
saturn.med.nyu.edu/groups/AbagyanLab/abstracts/../sh2/sh2.pdf

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and the central temperature and density grow in **response** to the increasing molecular weight (points
the star begins its ascent of the AGB. With this **entropy** barrier removed, the inner edge of the
stars, with particular attention to changes in **surface** composition. The emphasis is on the mechanisms
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Simultaneous Inversion of Rayleigh Phase Velocity and.. - Lai, Rix (1998) (Correct)
Of Tables Number Page 2.1 Phenomenological Soil **Responses** To Cyclic Excitation As A Function Of Shear
www.ce.gatech.edu/~grix/Lai_and_Rix_98.pdf

An Embedded Cluster Approach To Computational Materials Science - Ellis, Mundim (Correct)
The procedures are evolutionary, developing in **response** to particular materials needs examples from
temperature-dependent energy, specific heat, and **entropy** as well as dynamical measures such as diffusion
geometries of defect complexes, interfaces, and **surfaces**, as well as bulk systems. Embedded Cluster
dvworld.nwu.edu/DVM/Docs/CIMTEC.pdf

Adaptive Filters - Haykin (Correct)
adaptive filters compute an estimate of a desired **response** by using a linear combination of the available
invoke the notion of likelihood function [35]**entropy** [36] or Kullbeck-Leibler divergence [37] means that the gradient of the error performance **surface** with respect to the free parameter vector
soma.crl.mcmaster.ca/ASL/PUBS/FTP/Adaptive.IEEE.98.ps

Entropy Applied to Morphological Analysis and.. - Christine Andraud.. (Correct)
Each configuration having its own local optical **response**, will then a#ect the global **response** of the
France 7 (1997) 549 -557 MARCH 1997, PAGE 549 **Entropy** Applied to Morphological Analysis and
disks are black. The black pixel concentration (**surface** fraction) inside the image is 20% Fig. 1)

www-l2ti.univ-paris13.fr/~beghdadi/jp30309.pdf

Driven Lattice Gases: Typical Fluctuations And Large Deviations - Spohn (Correct)
are then defined through the equilibrium linear **response** in the currents due to driving gradients, which
in the large box ,then we can define an "**entropy**" through the large deviations ae (fn Ng) strong fields that LTE fails (hot electrons) 4]**Surface** growth is a further point in case: the
www-m5.mathematik.tu-muenchen.de/pers/spohn/115gas.ps

An Explicit Multi-Model Compressible Flow Formulation.. - Cai, Paraschivoiu.. (1999) (Correct)
However, for large scale simulations, the **response** time remains too large for the software to be
the accuracy avoiding any numerical generation of **entropy**. The main considerations addressed in this paper
convective fluxes through edges. When the **surface** of the control volume is different from the
www.ddm.org/DD11/Cai.ps.gz

Effects of Jet Swirl on Mixing of a Light Gas Jet in a.. - Since Its Founding (1999) (Correct)
26 3.5 Probe **Response** Time
mixing. Losses in total pressure (rises in **entropy**) associated with such schemes are low due to the
of a 25 supersonic jet injected from a flat **surface** (flush wall injection) into a supersonic ducted
techreports.larc.nasa.gov/ltrs/PDF/1999/cr/NASA-99-cr209842.pdf

Parallel Signal Processing At Aberdeen - Allen, Wang, Player (Correct)
receiver h: blurring function (system impulse **response**, for a plane reflector)f :image (height
In particular, a nonlinear technique (the maximum **entropy** method (MEM)has yielded reliable measurements
research at Aberdeen has been the measurement of **surface** roughness (R a !100m) using ultrasound pulse
pluto.eng.abdn.ac.uk/papers/pol_pap.ps.gz

High-Resolution IRAS Maps Parallelised - Tj Bontekoe Van (Correct)
profile of the detector **surface** (the detector **Response** Function, or RF)The grey rectangle is the
Postbus 800, 9700 AV Groningen Keywords: Maximum **Entropy**, Image Processing, Parallelisation, Peano
of the sensitivity profile of the detector **surface** (the detector **Response** Function, or RF)The
www.wins.uva.nl/research/pscs/papers/../papers/archive/Albada98_1.pdf

A Case Study On The Influence Of Shadows And Shading On.. - Gwinner German Aerospace (Correct)
described below, we have analyzed the spectral **response** of scene **surfaces** partly

covered with cast
data. Second, we determine Shannon's information **entropy** (Shannon and Weaver, 1949) both for shadow and
due to the three-dimensional shape of land **surface** and land coverage can cause seriously falsified
www.fpk.tu-berlin.de/~gw/papers/kopenh97.ps.gz

Speech/music Discrimination Based On Posterior Probability.. - Williams, Ellis (1999) (Correct)
between phone segments, i.e. to sharpen the **response** in these regions as much as possible, given the
variable for each segment: Mean per-frame **entropy**, defined as: 1 N N,1 X n=0 X k p#q n k
of this approach is that the smoothed spectral **surface** underlying MFCCs and similar features has been
ftp.icsi.berkeley.edu/pub/speech/papers/euro99-mussp.pdf

Curavature and the Evolution of Fronts - Sethian (1985) (Correct)
to a linearized analysis and thus the sympathetic **response** across all modes to a finite amplitude
seen to blow up, differentiability is lost, and an **entropy** condition can be formulated to provide an
boundary condition, which includes the effects of **surface** tension, is given by the Gibbs-Thomson relation,
www.math.berkeley.edu/~sethian/Publications/../Papers/sethian.comm_math.85.ps.gz

A Two Column Model of Tropical Atmospheric Circulations - David Raymond And (Correct)
Oceans Global Atmosphere Coupled Ocean Atmosphere **Response** Experiment Webster and Lukas, 1992) are being
of a positive imbalance in the column's **entropy** budget, resulting in the tendency to further
with a speci ed adjustment time. Convection, **surface** uxes, and radiation are parameterized in the
kestrel.nmt.edu/pub/raymond/column.ps.gz

The Maximum Likelihood Neural Network As A Statistical.. - Faraggi, Simon (Correct)
total squared error ,where y ir is the r th **response** of the i th case. The training begins by
and 4 estimated its parameters by minimizing an **entropy** measure of classification using the EM
with many parameters involved, the error **surface** may be highly convoluted and contain many local
rstat.haifa.ac.il/~faraggi/NNLOG.PS.gz

Cause and effect reversed in non-equilibrium molecular.. - Müller-Plathe, Reith (1998) (Correct)
are discussed. 2/18 1. Introduction Linear-**response** is often found experimentally in transport
the products j a X b have the dimensions of an **entropy** production rate. In general, they do differ from

transported in z direction through aperpendicular **surface** of area A per time t ,see Fig 1. It can also
www-theory.mpip-mainz.mpg.de/~mplathe/downloads/NEMD.ps.gz

Viscoelasticity Of Biopolymer Networks And Statistical.. - Frey, Kroy, Wilhelm (1998) (Correct)
. 5 II.B Nonlinear **response** .
cannot be understood from conformational **entropy** alone but crucially depends on the bending
other cell types that migrate individually on a **surface** or through tissues. It is absolutely essential
www.physik.tu-muenchen.de/~kkroy/publist/adv_struct_biol.ps.gz

Effects on Solar Structure of Opacity Changes - Tripathy Udaipur (Correct)
line)here ln is the natural logarithm. 3. **Response** of the envelope For a given equation of state,
determined by the composition and the specific **entropy**. The latter is fixed by adjusting the
1. Models EN1 and EN2 have the same values of **surface** hydrogen abundance X s while EN1 and EN3 have
www.obs.aau.dk/~jcd/papers/bombay95/opac-mod.ps.Z

Direct Computations Of Unsteady Flows About Thin Airfoils - Sheryl Grace (Correct)
subsonic flows. Results for the unsteady **surface response** for real-geometry airfoils in compressible
pressure, ae is the density of the fluid, s is the **entropy**, subscrtip o denotes the mean flow quantities,
in subsonic flows. Results for the unsteady **surface response** for real-geometry airfoils in
www.math.uakron.edu/hari/papers/out.ps

Redesigning a Network of Rainfall Stations - Sanso, Müller (1997) (Correct)
(1997) use a kriging model to estimate the **response surface** of interest and show how the problem of
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Area-Preserving Dynamics That is Not Reversible - Lamb (1995) (Correct)
dynamical behaviour (attractorrepeller pairs)In **response** to the question whether all Hamiltonian systems
collectively display irreversible behaviour (**entropy** always increases) 4]A quantum mechanical
bouncing ball (bouncing elastically on a flat **surface** without loss of energy) we cannot determine in
lomond.maths.warwick.ac.uk/~lamb/papers/apnr.ps

Excitation And Damping Of P-Modes - Ake Nordlund (Correct)
of (in particular) the low-frequency modes is the **response** of the Reynolds stress to the presence of
show, e.g.that the stochastic excitation due to **entropy** fluctuations significantly exceeds that due to
of turbulent convection in the near-solar-**surface** layers. Even before the detailed mode structure
www.pa.msu.edu/~steinr/papers/kyoto97_4.ps.gz

The Relaxation of Non-Quasiconvex Variational Integrals - Kloucek (1997) (Correct)
internal organization of a material in **response** to external stimuli corresponds to a passage
selection principle ought to be stronger then the **entropy** conditions for hyperbolic problems [1]2]
variational integral: 1) by adding the **surface** energy, 2) by following the minimization path
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR97709.ps.gz

Theories, vol. 4, edited by E. Schachinger, - Et Al (Correct)
we have studied the fully self-consistent spin **response** to a staggered magnetic field [14]The results
We would like to calculate reliably the **entropy** and specific heat as a function of temperature,
special features of band structure, such as Fermi **surface** nesting [9] and van Hove singularities near the
magus.physics.georgetown.edu/papers/deisz/cut_off.ps

Unsupervised Learning With Global Objective Functions - Becker (Correct)
as to whether or not it has produced the correct **response** for each input pattern. Invariably, though, for
where H(x) Gamma R x p(x) log p(x)dx is the **entropy** of random variable x with probability
as single points on a lower-dimensional constraint **surface**, by penalizing activation patterns that deviated

www.science.mcmaster.ca/Psychology/becker/papers/handbook-btnn.ps.Z

Parametric And Non-Parametric Techniques For Identifying.. - Kamal Khiani (Correct)
the network is conditioned to yield a particular **response** to a specific input. The training sample
gray level) and two from the cooccurrence matrix (**entropy** and correlation)These features were used in
a gradient descent on a squared error energy **surface** to arrive at a minimum. Method 4: Functional
mecca.spd.louisville.edu/~yamany/embs.ps

Chromospheric network properties on short time scales from .. - Ermolli Osservatorio (Correct)
offset, thermal dark current and flat-field **response**)We applied to each sub-array a FFT highpass
mean contrasts obtained performing the Maximum **Entropy** Method spectral analysis on data extracted (a)
the diffusion rate of magnetic fields on the solar **surface**. On the other hand, a large interest has been
oar.rm.astro.it/rise/sp97_2.ps

An Explicit Multi-Model Compressible Flow Formulation.. - Cai, Paraschivoiu.. (1999) (Correct)
However, for large scale simulations, the **response** time remains too large for the software to be
the accuracy avoiding any numerical generation of **entropy**. The main considerations addressed in this paper
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www.cs.colorado.edu/homes/cai/public_html/papers/dd11.ps.gz

A Neural Model of Time to Toxin Production by Non-Proteolytic - Clostridium Botulinum (Correct)
using a conventional model based on a quadratic **response surface**. 1. Introduction Clostridium botulinum
using the backpropagation algorithm with a cross-**entropy** error metric, to estimate the a posteriori
a conventional model based on a quadratic **response surface**. 1. Introduction Clostridium botulinum is an
www.sys.uea.ac.uk/~gcc/papers/ijcnn98.ps.gz

Perception And Entropy Inspired Ultrasonic Grain Noise.. - Ericsson, Gustafsson (Correct)
MHz and 0.7-1.4 MHz, respectively. The ultrasonic **response** signals were sampled at a rate of 40 MHz, with a
Perception And **Entropy** Inspired Ultrasonic Grain Noise Suppression,
3.8 3.9 f low up Figure 2: A part of the **entropy surface** -a function of f low and f up .The advantage
www.signal.uu.se/Publications/psu/c982.ps

Numerical Analysis of Hollow Piezoceramic Cylindrical.. - Melnik, Melnik (Correct)
that controls cell activity. Due to their fast **response** to vibrations or other external stimuli, derivative of corresponding tensors. We assume the **entropy** balance T@S=t =Gammaq ii Q 4) where T
areas as aerospace and oceanographic research. **Surface**bonded piezoelectrics or piezoelectrics embedded
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this, Carol and Steve can employ a challenge-**response** protocol. In general terms, such a protocol
typical private keys, the password has limited **entropy**, constrained by the memory of the user. A
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is approximated by a matrix of finite impulse **response** (FIR) filters to deconvolve and unmix the mixing
the signals x. Each box represents a filter. b) **Entropy** maximization at the output of the nonlinear
W(z) is the inverse of the mixing system A(z)The **design** of W(z) must allow for noncausal extension since
tesla.salk.edu/~tewon/Blind/WWW/Blind/WWW/Public/icnn97.ps.gz

Designing Modular Artificial Neural Networks - Boers, Kuiper, Happel.. (1993) (Correct) (18 citations)
network is said to generalize if it gives correct **responses** to input patterns not seen during training.
brain is believed to have evolved. 1.1 Learning as **entropy** reduction A neural network, when trained, is
Rijksuniversiteit Te Leiden Vakgroep Informatica **Design**ing Modular Artificial Neural Networks Egbert J.w.
www.inet.gda.pl/ai/ftp.wi.LeidenUniv.nl/pub/CS/TechnicalReports/1993/tr93-24.ps.gz

Bayou: Replicated Database Services for World-wide.. - Petersen, Spreitzer.. (1996) (Correct) (15 citations)
in Bayou. One may wish to move the primary in **response** to changing access patterns, for instance, so
writes among themselves via a pairwise anti-**entropy** protocol that permits incremental progress. A
are some of the important challenges faced by **design**ers of world-wide applications and the
mosquitonet.stanford.edu/sigops96/papers/petersen.ps

Materials With Internal Variables And Relaxation To.. - Athanasios Tzavaras (1998) (Correct) (13 citations)
against the destabilizing effect of nonlinear **response**, as well as a damping effect on oscillations
of heat, equipped with globally defined "**entropy**" functions for the associated relaxation references therein. The issue is important in the **design** of relaxation schemes for the equations of gas
kleene.math.wisc.edu/~tzavaras/reprints/relax.ps

Massively Replicating Services in Wide-Area Internetworks - Danzig, DeLucia, Obraczka (1994) (Correct) (12 citations)
services should not trade availability and **response** time for globally ordered delivery [6]On one
received corrupted articles. 1.4 Timestamped, Anti-**Entropy** Replication Golding modified Grapevine's
Recall the end-toend argument in layered **design** [16]functions that can only be completely and
catarina.usc.edu/pub/kobraczk/ToN.ps.Z

A Genetic Approach to Finding a Controller to Back Up a.. - Koza (1992) (Correct) (12 citations)
in advance. The needed structure is evolved in **response** to the selective pressures of Darwinian
for complex roots)generation of maximal **entropy** sequences of random numbers [14]finding
kinematic equations (e.g.to move a robot arm to **design**ated target points) 10]optimal control (e.g.
www.genetic-programming.com/ACC92.ps

The Application of Microeconomics to the Design of Resource.. - Ferguson (1989) (Correct) (10 citations)
economy substantially decreases mean transaction **response** time by adapting to to the transactions
. 123 5.3.2 Adapting to **Entropy** .
The Application of Microeconomics to the **Design** of Resource Allocation and Control Algorithms
www.cs.columbia.edu/~jakka/Don-thesis.ps.gz

Parallel Newton-Krylov-Schwarz Algorithms For The.. - Cai, Gropp, KEYES.. (1998) (Correct) (8 citations)
which is often progressively tightened in **response** to a falling nonlinear residual norm. The most
full potential equation also avoids the spurious **entropy** generation near stagnation often associated with
problems in [5] and of linear aerodynamic **design** optimization problems in [32]Newton-Krylov
www.cs.colorado.edu/homes/cai/public_html/papers/nks96.ps.gz

A Progressive Transmission Image Coder Using Linear Phase.. - Tran, Nguyen (1997) (Correct) (8 citations)
and unequal-length constraint on filter **responses**: C overall =ff 1C coding gain ff 2C DC ff
energy compaction that leads to more efficient **entropy** coding of the coefficients ii) from the
shows that lapped transforms, when carefully **design**ed, are capable of providing superior
saigon.ece.wisc.edu/~waveweb/Coder/../Publications/Tran/coder.ps.gz

Integrating Planning and Reaction: A Preliminary Report - Bresina, Drummond (1990) (Correct) (7 citations)
must be capable of determining, at runtime, a **response** appropriate to a novel situation-goal pair. This
This paper is a preliminary report on the **Entropy** Reduction Engine architecture for integrating
a NASA mission scenario and a brief list of **design** goals. The main body of the paper presents an
cgenie.lboro.ac.uk/~dan/papers/jb-spring-90.ps

Coding for Low-Power Address and Data Busses: A.. - Ramprasad, Shanbhag.. (1998) (Correct) (3 citations)
where F represents the vector of the impulse **response** of a linear filter. The decorrelator f 1
function f 1 first. Next, a variant of **entropy** coding function f 2 is employed, which reduces
in this paper is a source-coding framework for the **design** of coding schemes to reduce transition activity.
uivlsi.csl.uiuc.edu/~ramprasa/vlsi98.ps.gz

Filter bank design for subband compression of ECG signals - Aase (1995) (Correct) (3 citations)
to give 16 bands, giving a total Iter **response** length of 226 taps. 3.1. Quantization scheme
is scalar quantized, and coded using run-length **entropy** coding. Huoemann coding is performed on the
Filter bank **design** for subband compression of ECG signals Sven Ole
www.ux.his.no/sigproc/www/norsig/norsig95/papers/aase.ps.gz

An Implementable Meta-process - Robertson (1996) (Correct) (2 citations)
if the resulting process cannot freely evolve in **response** to influences and to changes in circumstances,
have noted the existence of the property of `**entropy**' in human activity systems which include
Proceedings, Second World Confrence on Integrated **Design** and Process Technology, Eds MMTanik, FB Bastani,
ftp.cs.man.ac.uk/pub/IPG/ir96.ps

Function Optimization Using Connectionist Reinforcement.. - Ronald Williams (1991) (Correct) (2 citations)
reinforcement signal delivered to the network in **response** to its output pattern. This particular use of a

in nontrivial networks which incorporates an **entropy** maximization strategy. This was found to perform
some already existing and some of his own **design**, on a number of optimization problems involving
ftp.ccs.neu.edu/pub/people/rjw/func-opt-cs-91.ps

Impact of diversity reception on fading channels.. - Ventura-Traveset, .. (1997) (Correct) (2 citations)
is fed to the shaping filter, whose impulse **response** 1 It may be interesting to observe that in
channel is to the AWGN channel we use the cross-**entropy** [3] or Kullback-Leibler information measure)
Torino (Italy) Abstract We address the problem of **design**ing and analyzing the performance of a coded
entropy.polito.it/pub/mobile/nord1.ps.gz

Discontinuous Regression Surfaces Fitting - Qiu (1998) (Correct) (1 citation)
function usually takes discrete values while the **response** variable in the regression setup is generally
method is closely related to the maximum-**entropy** methods (Titterington 1985) and the Bayesian
fitted through these points in a neighborhood of a **design** point. This line provides a first-order
biostat3.med.ohio-state.edu/surface.ps

The Impact of New Multimedia Representations on Hardware and.. - Bove, Jr. (1997) (Correct) (1 citation)
advantage of signal statistics and frequency-**response** models of human perception, but not of
object (perhaps specified after undoing **entropy** coding or other compression)and also that we
with particular reference to their impact on the **design** of software and hardware systems for multimedia.
www.media.mit.edu/people/vmb/papers/spie97bove.ps.Z

Meeting QoS Challenges for Scalable Video Flows in .. - Aurrecoechea.. (1995) (Correct) (1 citation)
the playout time of continuous media in **response** to variation in delay, audio and video flows can
and the actual source material through the use of **entropy** coding: video sequences that deviate from the
information in the signal. Using creative **design** techniques that take into account the perceptual
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Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 29 Issue: 5 , Sep 1981
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